

In the Claims

The status of claims in the case is as follows:

1 1. [Currently amended] A collaboration space, comprising:

2 3
a place comprising a plurality of rooms linked by
3 forward and reverse pointers, each said forward pointer
4 including a readers field;

5 5
a member directory for said place identifying users
6 authorized to enter said place; and

7 7
each said room comprising one or more pages, and for
8 each said room said readers field being a members
9 object for identifying members authorized to access
10 said room and for each member a level of authorization.

1 2. [Original] The collaboration space of claim 1, said
2 levels of authorization including manager, author, and
3 reader.

1 3. [Currently amended] ~~The collaboration space of claim 1,~~

2 A collaboration space, comprising:

3 a place comprising a plurality of rooms linked by
4 pointers;

5 a member directory for said place identifying users
6 authorized to enter said place; and

7 each said room comprising one or more pages, and for
8 each said room a members object for identifying members
9 authorized to access said room and for each member a
10 level of authorization;

11 said rooms including a parent room and a child room, and
12 said pointers comprising forward and backward pointers for
13 enabling the security of each said room to be independently
14 managed.

1 4. [Original] The collaboration space of claim 3, each
2 said forward pointer further comprising a readers field,
3 said readers field including an access authority for each
4 reader authorized to enter said room.

1 5. [Original] The collaboration space of claim 3, each
2 said forward pointer being secure pointer.

1 6. [Original] The collaboration space of claim 5, each
2 said forward pointer carrying the same security as that of
3 the subroom to which it points.
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1 7. [Original] The collaboration space of claim 6, further
2 comprising a display for presenting to a specific user
3 viewing a parent room a listing of its subrooms, said
4 listing including for said specific user only those subrooms
5 for which a readers field in said forward pointer includes
6 an entry authorizing access by said specific user.

1 8. [Currently amended] A database access control system,
2 comprising:

3 an access control list for specifying users who can or
4 cannot access said database;

5 for users authorized to access said database, said
6 access control list further specifying access levels
7 and roles determining the specific actions said users
8 are authorized to perform, said roles including reader,
9 author, and manager;

10 a form selectively including a form access list;

11 said database including one or more documents created
12 from said form;

13 forward pointers linking said form to said documents
14 and reverse pointers linking said documents back to
15 said form;

16 said form access list identifying users authorized to
17 read documents created from said form;

18 each said forward pointer to a document including a
19 document access field selectively including a readers
20 field and an authors field for controlling who can read
21 or modify said document; users identified in any said
22 form access list for said form from which said document
23 was created being included in said readers field;

24 entries in said readers field granting authorization to
25 an individual user equal to or less than the
26 authorization for said individual user in said access
27 control list; and

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28 entries in said authors field selectively granting
29 authorization to a user authorized as an author in said
30 access control list to edit a document which said
31 author creates.

1 9. [Currently amended] A method for controlling access to
2 rooms within a collaboration place, comprising the steps of:

3 maintaining for said collaboration place an access
4 control list identifying those users authorized to
5 enter said place;

6 providing forward and reverse pointers linking said
7 rooms in a hierarchical structure within said place,
8 said pointers including forward pointers having a
9 readers field;

10 displaying a parent room to a specific user, said

11 parent room including a list of children rooms for
12 which said readers fields on said forward pointers
13 authorize said specific user access.

1 10. [Original] A method for creating a child room within a
2 collaboration place data base, comprising the steps of:

3 providing for said data base an access control list
4 identifying users authorized to access said data base;

5 providing for said child room a back pointer to a
6 parent room; and

7 providing at said parent room for said child room a
8 forward pointer from said parent room, said pointer
9 including a readers access field listing users
10 authorized to access said child room.

1 11. [Original] The method of claim 10, further comprising
2 the steps of:

3 limiting reader access in said readers access field to

4 said child room for a specific user to no more than the
5 access granted said specific user in said access
6 control list.

1 12. [Original] The method of claim 11, further comprising
2 the step of initially including in said readers access
3 field for a child room created from a form users
4 identified in a form access list identifying users
5 authorized to read rooms created from said form.

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1 13. [Currently amended] A program storage device readable
2 by a machine, tangibly embodying a program of instructions
3 executable by a machine to perform method steps for
4 controlling access to rooms within a collaboration place,
5 said method steps comprising:

6 maintaining for said collaboration place an access
7 control list identifying those users authorized to
8 enter said place;

9 providing forward and reverse pointers linking said
10 rooms within said place, said ~~pointers including~~

11 forward pointers having a readers field; and

12 displaying a parent room to a specific user, said
13 parent room including a list of children rooms for
14 which said readers fields on said forward pointers
15 authorize said specific user access.

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1 14. [Currently amended] An article of manufacture
2 comprising:

3 a computer useable medium having computer readable
4 program code means embodied therein for controlling
5 access to rooms within a collaboration place, the
6 computer readable program means in said article of
7 manufacture comprising:

8 computer readable program code means for causing a
9 computer to effect maintaining for said collaboration
10 place an access control list identifying those users
11 authorized to enter said place;

12 computer readable program code means for causing a
13 computer to effect providing forward and reverse

14 pointers linking said rooms in a hierarchical structure
15 within said place, said pointers including forward
16 pointers having a readers field; and

17 computer readable program code means for causing a
18 computer to effect displaying a parent room to a
19 specific user, said parent room including a list of
20 children rooms for which said readers fields on said
21 forward pointers authorize said specific user access.

1 15. [Currently amended] A computer program product or
2 computer program element for controlling access to rooms
3 within a collaboration place according to the steps of:

4 maintaining for said collaboration place an access
5 control list identifying those users authorized to
6 enter said place;

7 providing forward and reverse pointers linking said
8 rooms in a double-linked list within said place, said
9 pointers including forward pointers having a readers
10 field;

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11 displaying a parent room to a specific user, said
12 parent room including on said forward pointers a list
13 of children rooms for which said readers fields
14 authorize said specific user access.
